

PRODUCT DATASHEET

Confidex Xenon VIP™



Non-transferable tamper-proof label for car windshields with extensive security features

ELECTRICAL SPECIFICATION

Device type

Class 1 Generation 2 passive UHF RFID transponder
Compliant with EPC Gen2V2

Air interface protocol

EPCGlobal Class1 Gen2 ISO 18000-6C

Operational frequency

Global 860-960 MHz

IC type

NXP UCODE DNA™

Memory configuration

With UCODE DNA: EPC up to 224 bit; User 3072 bit;
TID 96 bit;

Read range (2W ERP)*

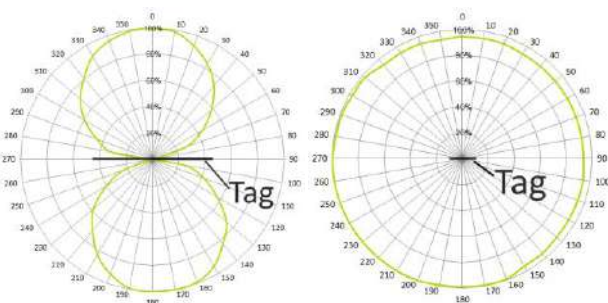
EU: Up to 10 m / 32 ft
US: Up to 8 m / 26 ft

Applicable surface materials*

Glass

* Read ranges are theoretical values that are calculated for non-reflective environment, in where antennas with optimum directivity are used with maximum allowed operating power according to ETSI EN 302 208 (2W ERP). Different surface materials may have an effect on performance.

RADIATION PATTERNS



MECHANICAL SPECIFICATION

Tag materials

- Back side (facing windshield): Aluminum antenna with acrylic adhesive
- Front side (facing driver): Inkjet and thermal printable PET. Resin ribbon recommended. Can be ordered with static color printing and black personalization.

Weight

1 g

Delivery format

500 pcs on reel

Pitch on reel

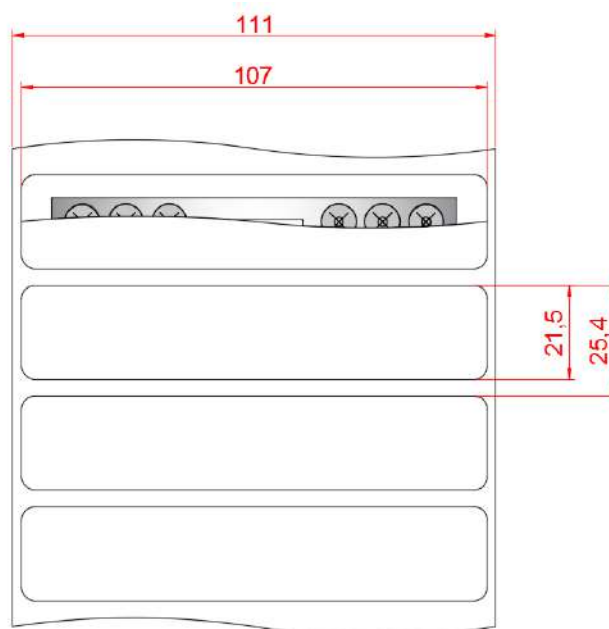
25,4 mm / 1.0 in

Reel core inner diameter

76 mm / 3"

Dimensions

107 x 21,5 x 0,2 mm / 4.21 x 0.85 x 0.008 in



ENVIRONMENTAL RESISTANCE

Operating temperature

-35°C to +85°C / -31°F to +185°F

Ambient temperature

-35°C to +85°C / -31°F to +185°F

Storage condition

1 year in +20°C / 50% RH (shelf life for adhesive)

Expected lifetime

Years in normal operating conditions

Chemical resistance

No physical or performance changes in:

- 168h Salt water (salinity 10%) exposure
- 24h NaOH (10%, pH 13) exposure
- 168h Motor oil exposure
- 168h Sulfuric acid (10%, pH 2) exposure

Values in the table are the best recommendations; resistance against environmental conditions depends on the combination of all influencing factors, exposure duration and chemical concentrations. Thus, product's final suitability for certain environmental conditions is recommended to be tested. Contact Confidex for more specific information.

PERSONALIZATION OPTIONS

Pre-encoding

- Customer specific encoding of EPC or user memory. Locking permanently or with password.

Customized full color artwork

- Layout can include any static artwork.

Customer specific visual printing

- Variable data like barcodes, human readable text, serial number etc.

INSTALLATION INSTRUCTIONS



Tag polarization

Ideal installation conditions are +20°C (+68°F) / 50% RH. For exceptional conditions, please contact Confidex. Adhesive of the label will provide best adhesion in 24 hours after the installation. Bond strength can be improved with firm application pressure. Always clean and dry the surface for obtaining the maximum bond strength. Avoid touching the background adhesive.

Label antenna parts should not be in contact with metal to enable best performance of the label. Note that metallized UV-protection films have strong effect on RFID performance.

Minimum bending diameter of the Confidex Xenon VIP™ label is defined to be 50mm. Do not bend the label below the limit. Never touch on the location of the IC. IC chip is sensitive electrical component and can be damaged if unexpected pressure is applied on the chip.

ORDER INFORMATION

Products are delivered by default as blank white labels without any printing.

Product number: 3001126

Product name: Confidex Xenon VIP™

For other versions, additional information and technical support contact Confidex Ltd.

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